PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference WP 10318	FOR FURTHER ACTION	See Form PCT/IPEA/416						
International application No.	International filing date (day/month/year)	Priority date (day/month/year)						
PCT/EP2005/001361	10.02.2005	12.02.2004						
International Patent Classification (IPC) or nati	onal classification and IPC							
C09J129/04 C08L29/00								
Applicant WACKER POLYMER SYSTEM	4S GMBH & CO. KG							
	1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2. This REPORT consists of a total of	sheets, inc	luding this cover sheet.						
3. This report is also accompanied by A	NNEXES, comprising:							
a. (sent to the applicant and	to the International Bureau) a total of 2	sheets, as follows:						
sheets of the descrip	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
	Ruxagu anh) a total of (indicate type and n	number of electronic corrier(s)						
sen to the International I	Bureau only) a total of (indicate type and n	unities of electronic carrier(s))						
related thereto, in computer Section 802 of the Administ	, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see							
4. This report contains indications relati	ng to the following items:							
Box No. I Basis of the	report							
Box No. II Priority								
Box No. III Non-establi	shment of opinion with regard to novelty, i	nventive step and industrial applicability						
Box No. IV Lack of unit	y of invention							
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain doc	uments cited							
Box No. VII Certain defe	ects in the international application							
Box No. VIII Certain obse	Box No. VIII Certain observations on the international application							
Date of submission of the demand Date of completion of this report								
Name and mailing address of the IPEA/EP	Authorized officer	Authorized officer						
Eacsimile No	Telephone No							

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2005/001361

Box	No. I	Basis of the report				
1.		h regard to the language , this report is based on the internati cated under this item.	onal application in the language in	which it was filed, unless otherwise		
		This report is based on translations from the original languments which is the language of a translation furnished for the pure international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.1) international preliminary examination (Rule 55.2 and 15.2).	eposes of:	,		
2.	rece	h regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the eliving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to report): the international application as originally filed/furnished the description:				
		pages 1-7 pages*				
	\square		received by this Authority on			
		the claims:		as originally filed/furnished		
		nos.*	as amended (togethe	r with any statement) under Article 19		
		nos.* 1-10		08.12.2005 with letter		
		nos.*	received by this Authority on			
		the drawings:				
		sheets		as originally filed/furnished		
		sheets*	received by this Authority on			
		sheets*	received by this Authority on			
		a sequence listing and/or any related table(s) – see Suppler				
3.		The amendments have resulted in the cancellation of:				
		the description, pages				
		the claims, nos.	the claims, nos.			
			7			
		the sequence listing (specify):				
4.		This report has been established as if (some of) the amer they have been considered to go beyond the disclosure as	ndments annexed to this report and	listed below had not been made, since		
		the description, pages				
		the claims, nos.				
		the sequence listing (specify):				
		any table(s) related to sequence listing (specify):				
*	If ite	em 4 applies, some or all of those sheets may be marked "su	perseded."			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2005/001361

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement			
	Novelty (N)	Claims	1-10	YES
		Claims		_ NO
	Inventive step (IS)	Claims	1-10	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-10	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

The subject matter of the application is novel and inventive under PCT Article 33(1)-(3).

What is claimed is the use of partly hydrolysed vinyl ester polymers having a defined molecular weight of less than 70 000, a degree of hydrolysis of 62-86 mol% and randomly distributed vinyl alcohol units in hot-melt adhesive compositions, which in addition contain no mannitol and no anionic emulsifier.

D1 describes a hot-melt adhesive compositions which are based on PVOH and have a degree of polymerization of below 2500 and a degree of hydrolysis of 20-95%. The vinyl alcohol units, however, are arranged blockwise. The novelty over D1 therefore comes about through the random distribution of the vinyl alcohol units and through the combination with the other features, such as degree of hydrolysis and molecular weight. The problem addressed by the present invention was that of further providing hot-melt adhesives based on partly hydrolysed vinyl ester polymers that exhibit an improved flow behaviour and are nevertheless easy to wash off using water. This has been

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2005/001361

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

achieved through the use of a vinyl ester polymer having a specific "narrow" degree of hydrolysis and randomly distributed vinyl alcohol units. This could not have been inferred from D1, since the polyvinyl alcohols used therein are arranged blockwise and the degree of hydrolysis is already located within a wide range. As the results from table 2 make clear, the improved flow behaviour goes hand in hand with an effective solubility in water.